

-1- (Twice amended)

Sub E1
C1
5
A composition for protecting cultivated plants comprising:

(a) at least one herbicide; and

(b) repellent adjuvant selected from the group consisting of silane, silicone, silicate and mixtures thereof which are organic for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced to reduce herbicide injury to the cultivated plant by the herbicide but which is effective from the soil.

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-24- (Twice amended)

C2
Sub E2
5
A method for protecting crop plants without injuring crop plants, the steps comprising:

(a) providing a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant selected from the group consisting of silane, silicone, silicate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants to reduce herbicide injury to the crop plant by the herbicide but which is effective from the soil; and

10

(b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

15

-25- (Twice amended)

Sub
Ex
Cmt
A method for inhibiting a weed without injuring turfgrass, the steps comprising:

5 (a) providing a liquid dispersion of a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass to reduce herbicide injury to the turfgrass by the herbicide but which is effective from the soil; and

C2
conc'd
10

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

-44- (Amended)

C^B
The method of Claim 24 or 25 wherein the composition further comprises a monosaccharide to potentiate the effect of the herbicide in killing the weeds without decreasing tolerance of the crop plant to the herbicide.

5

Cancelled → A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

5 (a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants to reduce herbicide injury to the crop plant by the herbicide but which is effective from the soil; and

10 (b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

A composition for protecting cultivated plants comprising:

(a) an acetochlor herbicide;

5 (b) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-

10 diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-

15 N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-
dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-
dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-
(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-
(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-
dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
20 tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1-(dichloroacetyl)-1-
azaspiro[4,4]nonane, and combinations thereof; and

C4
cont.
25 (c) a repellent adjuvant which is an
organosiliconate for modifying surface properties of the
composition so that retention of the composition on
foliage of the cultivated plant is reduced to reduce
herbicide injury to the cultivated plant by the herbicide
but which is effective from the soil.

-58- (Twice amended)

A composition for protecting cultivated plants
comprising:

5 (a) one or more of a herbicide selected from
the group consisting of nicosulfuron, glyphosate,
primisulfuron, chlorimuron, glufosinate-ammonium salt,
linuron, linuron and chlorimuron ethyl, thifensulfuron,
imazethapyr, imazaquin, acetochlor, alachlor, S-
ethylpropylthiocarbonate, isoxaflutole, flufenacet,
metalachlor, and combinations thereof; and

10

(b) a repellent adjuvant which is an organosiliconate for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced to reduce herbicide injury to the cultivated plant by the herbicide but which is effective from the soil.

-71- (New)

A composition for protecting cultivated plants comprising:

(a) at least one herbicide;

(b) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-

diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof; and

25 (c) repellent adjuvant selected from the group consisting of silane, silicone, siliconate and mixtures thereof which are organic for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

Ch
-72- (New)

A composition for protecting cultivated plants comprising:

5 (a) at least one herbicide; and
(b) repellent adjuvant which is an aqueous solution of an organosiliconate selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.
10

-73- (New)

The composition of Claim 72 wherein the repellent adjuvant is sodium methyl siliconate.

-74- (New)

The composition of Claim 71 wherein at least one of the herbicide is an acetanilide selected from the group consisting of metolachlor and acetochlor and the safener is selected from the group consisting of
5 benoxacor, flurilizole, dichlormid and 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane.

-75- (New)

Ch In a method for protecting crop plants including applying a herbicide formulation that has herbicidal activity from soil, the improvement comprising using as the herbicidal formulation a homogenous aqueous
5 dispersion of a composition comprising:

(a) at least one herbicide; and

(b) repellent adjuvant which is an aqueous solution of sodium methyl silicate for modifying surface properties of the composition so that retention
10 of the composition on foliage of the cultivated plant is reduced.

-76- (New)

A method for protecting crop plants without injuring crop plants, the steps comprising:

(a) providing a herbicidal formulation comprising

5 (i) at least one herbicide admixed with a repellent adjuvant selected from the group

consisting of silane, silicone, siliconate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants and

(ii) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4.4]nonane, and combinations thereof; and

(b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprising

5 (i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass and

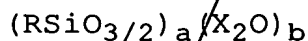
10 (ii) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyl oxazolidine, 2,2-
15 dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-
20 dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
25 2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-

diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof; and

30 (b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

-78- (New)

ch The method of Claim 77 wherein the organosiliconate has the formula



5 wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1.

-79- (New)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

5 (a) providing a liquid dispersion of a herbicidal formulation comprising at least one herbicide admixed with a repellent adjuvant which is an aqueous solution of an organosiliconate selected from the group consisting of sodium methyl silicate, potassium methyl silicate, and mixtures thereof wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage
10 of the turfgrass; and

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the

soil wherein the formulation inhibits growth of the weed.

-80- (New)

The method of Claim 79 wherein the repellent adjuvant consists essentially of 32 weight percent of sodium methyl siliconate and 67 weight percent of water.

-81- (New)

Ch The method of Claim 76 wherein the herbicide is metolachlor and the safener is benoxacor.

-82- (New)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprising

5 (i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass,

10 (ii) an acetanilide herbicide which is metolachlor, and

(iii) a safener which is benoxacor;
and

15 (b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

-83- (New)

A method for protecting crop plants without injuring crop plants, the steps comprising:

(a) providing a herbicidal formulation comprising

5 (i) at least one herbicide admixed with a repellent adjuvant selected from the group consisting of silane, silicone, silicate and mixtures thereof which are organic wherein the repellent adjuvant modifies surface properties of the formulation thereby
10 reducing retention of the formulation on foliage of crop plants and

(ii) an oil-based adjuvant selected from the group consisting of a crop oil concentrate, a free fatty acid, an esterified and saponified oil and
15 combinations thereof; and

(b) applying the formulation to the crop plants wherein the formulation bounces off the foliage onto the soil wherein the formulation protects the crop plants without injuring the crop plants.

-84- (New)

A method for inhibiting a weed without injuring turfgrass, the steps comprising:

(a) providing a liquid dispersion of a herbicidal formulation comprising

5 (i) at least one herbicide admixed

with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of the turfgrass and

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(ii) an oil-based adjuvant selected from the group consisting of a crop oil concentrate, a free fatty acid, an esterified and saponified oil and combinations thereof; and

15

(b) applying the formulation to the turfgrass wherein the formulation bounces off the foliage onto the soil wherein the formulation inhibits growth of the weed.

ch
-85- (New)

The method of Claim 83 wherein at least one of the herbicide is selected from the group consisting of cyclohexanidione, aryloxyphenoxy, imidazolinone, and sulfonylurea herbicides.

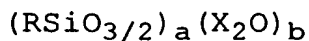
-86- (New)

The method of Claim 84 wherein at least one of the herbicide is selected from the group consisting of cyclohexanidione, aryloxyphenoxy, imidazolinone, and sulfonylurea herbicides.

-87- (New)

A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

5 (a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant which is an aqueous solution of an organosiliconate which has the formula



10 wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1 wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants; and

15 (b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

-88- (New)

A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

5 (a) providing a composition comprising at least one herbicide admixed with a repellent adjuvant selected from the group consisting of an aqueous solution of sodium methyl siliconate and an aqueous solution of N-(2-aminoethyl)-3-aminopropyltrimethoxysilane and methyltrimethoxysilane wherein the repellent adjuvant
10 modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants; and

15 (b) applying the formulation to the plants wherein the formulation bounces off the foliage onto the soil wherein the formulation controls the weeds without injuring the crop plant.

-89- (New)

5 A method for applying one or more postemergence herbicides for controlling weeds to a crop plant without injuring the crop plant, the steps comprising:

(a) providing a composition comprising

5 (i) at least one herbicide admixed with a repellent adjuvant which is an organosiliconate wherein the repellent adjuvant modifies surface properties of the formulation thereby reducing retention of the formulation on foliage of crop plants and

10 (ii) a safener selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-

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25 dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1-(dichloroacetyl)-1-
azaspiro[4,4]nonane, and combinations thereof; and

30 (b) applying the formulation to the plants
wherein the formulation bounces off the foliage onto the
soil wherein the formulation controls the weeds without
injuring the crop plant.

ch
-90-(New)

A composition for protecting cultivated plants
comprising:

5 (a) one or more of a herbicide selected from
the group consisting of nicosulfuron, glyphosphate,
primisulfuron, chlorimuron, glufosinate-ammonium salt,
linuron, linuron and chlorimuron ethyl, thifensulfuron,
imazethapyr, imazaquin, acetochlor, alachlor, S-
ethylpropylthiocarbonate, isoxaflutole, flufenacet,
metalachlor, and combinations thereof;

10 (b) a safener selected from the group
consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-
decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-
dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine,
2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-
15 dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-
diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-

20 N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-
N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-
dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-
dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-
(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-
(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-
dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
25 2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1,4-(dichloroacetyl)-1-
azaspiro[4,4]nonane, and combinations thereof; and

30 (c) a repellent adjuvant which is an
organosiliconate for modifying surface properties of the
composition so that retention of the composition on
foliage of the cultivated plant is reduced.

-91- (New)

A composition for protecting cultivated plants
comprising:

(a) an acetochlor herbicide;
(b) a safener selected from the group
5 consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-
decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-
dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine,
2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-
dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-
10 diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-

ch
N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-
N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-
dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-
15 dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-
(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-
(dichloroacetyl)-1-oxa-4-azapero-(4,5)-decane, 2,2-
dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
20 tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1-(dichloroacetyl)-1-
azaspiro[4,4]nonane, and combinations thereof; and

(c) a repellent adjuvant which is an aqueous
solution of an organosiliconate which has the formula

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wherein X denotes sodium or potassium, and R is methyl,
ethyl, or propyl, and the ratio of Si:X is about 1:1 for
modifying surface properties of the composition so that
retention of the composition on foliage of the cultivated
30 plant is reduced.

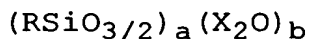
-92- (New)

A composition for protecting cultivated plants
comprising:

5 (a) one or more of a herbicide selected from
the group consisting of nicosulfuron, glyphosphate,
primisulfuron, chlorimuron, glufosinate-ammonium salt,
linuron, linuron and chlorimuron ethyl, thifensulfuron,

imazethapyr, imazaquin, acetochlor, alachlor, S-ethylthiopyr, thiocarbonylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof; and

10 (b) a repellent adjuvant which is an aqueous solution of an organosiliconate which has the formula



wherein X denotes sodium or potassium, and R is methyl, ethyl, or propyl, and the ratio of Si:X is about 1:1 for
15 modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

ch
-93- (New)

The composition of Claim 92 further comprising a safener.

-94- (New)

The composition of Claim 93 wherein the safener is selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyl-oxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-

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dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidinyl]pyridine, 4-(dichloroacetyl)-1-oxa-4-azapero-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof.

-95- (New)

Ch The composition of Claim 93 wherein the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

-96- (New)

The composition of Claim 93 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.

-97- (New)

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The composition of Claim 90 wherein the herbicide is acetochlor and the organosiliconate is selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof.

-98- (New)

The composition of Claim 90 wherein the

organosiliconate is selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate, and mixtures thereof.

-99- (New)

A composition for protecting cultivated plants comprising:

5 (a) one or more of a herbicide selected from the group consisting of nicosulfuron, glyphosate, primisulfuron, chlorimuron, glufosinate-ammonium salt, linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, S-ethyl dipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof;

10 (b) a safener; and

(c) a repellent adjuvant which is an aqueous solution of an organosiliconate selected from the group consisting of sodium methyl siliconate, potassium methyl siliconate and mixtures thereof for modifying surface properties of the composition so that retention of the composition on foliage of the cultivated plant is reduced.

15

-100- (New)

The composition of Claim 99 wherein the safener is selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-

5 (2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-
dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-
dichloroacetyl oxazolidine, N,N-diallyl-2,2-
dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-
dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-
10 dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-
dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-
dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-
(dichloroacetyl)-2,2-dimethyl-5-oxalidiny]pyridine, 4-
(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-
15 dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1-(dichloroacetyl)-1-
20 azaspiro[4,4]nonane, and combinations thereof.

-101-(New)

The composition of Claim 99 wherein the herbicide is isooxaflutole and the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

-102-(New)

The composition of Claim 99 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.

-103-(New)

5 The composition of Claim 99 wherein the herbicide is acetochlor and the safener is selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-(dichloroacetyl)-2,2-dimethyl-5-oxalidiny]pyridine, 4-(dichloroacetyl)-1-oxa-4-azaspiro-(4,5)-decane, 2,2-dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-tetrahydroquinoline, 1,5-bis(dichloroacetyl)-1,5-diazacyclononane, 1-(dichloroacetyl)-1-azaspiro[4,4]nonane, and combinations thereof.

-104- (New)

A composition for protecting cultivated plants comprising:

5 (a) one or more of a herbicide selected from the group consisting of nicosulfuron, glyphosate, primisulfuron, chlorimuron, glufosinate-ammonium salt,

linuron, linuron and chlorimuron ethyl, thifensulfuron, imazethapyr, imazaquin, acetochlor, alachlor, S-ethyldipropylthiocarbonate, isoxaflutole, flufenacet, metalachlor, and combinations thereof; and

10 (b) a repellent adjuvant which is an aqueous organosiliconate solution consisting essentially of 32 weight percent of sodium methyl silicate and 67 weight percent of water for modifying surface properties of the composition so that retention of the composition on
15 foliage of the cultivated plant is reduced.

CB
-105- (New)

The composition of Claim 104 further comprising a safener.

-106- (New)

The composition of Claim 105 wherein the safener is selected from the group consisting of 4-(dichloroacetyl)-1-oxo-4-azaspiro-(4,5)-decane, 2,2-dichloro-N,N-di-2-propenylacetamide, 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine, 2,2,5-trimethyl-N-dichloroacetyloxazolidine, 2,2-dimethyl-5-phenyl-N-dichloroacetyl oxazolidine, N,N-diallyl-2,2-dichloroacetamide, 2,2-dimethyl-5(2-furanyl)-N-dichloroacetyl oxazolidine, 2,2-dimethyl-5(2-thienyl)-N-dichloroacetyl oxazolidine, 2,2-spirocyclohexy-N-dichloroacetyl oxazolidine, 4-(dichloroacetyl)-3,4-dihydro-3-methyl-2H-1,4-benzoxazine, 3-[3-

15 (dichloroacetyl)-2,2-dimethyl-5-oxalidinyllpyridine, 4-
(dichloroacetyl)-1-oxa-4-azapiro-(4,5)-decane, 2,2-
dichloro-1-(1,2,3,4-tetrahydro-1-methyl-2-
isoquinolyl)ethanone, cis/trans-1,4-bis(dichloroacetyl)-
2,5-dimethylpiperazine, N-(dichloroacetyl)-1,2,3,4-
tetrahydroquinaldine, 1,5-bis(dichloroacetyl)-1,5-
diazacyclononane, 1-(dichloroacetyl)-1-
20 azaspiro[4,4]nonane, and combinations thereof.

-107- (New)

CS
canceled

The composition of Claim 105 wherein the herbicide is isooxaflutole and the safener is 2,2,5-trimethyl-N-dichloro-acetyloxazolidine.

-108- (New)

The composition of Claim 105 wherein the herbicide is halosulfuron and the safener is 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine.